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Part I: Overview of Business

- Kemin is currently composed of 14 independent operating units, each with their own president. Together, they provide more than 500 ingredients to serve our customers and provided net sales of \$585 million in 2014.
- **Vision:** We strive to improve the quality of life by touching half the people of the world every day with our products and services.

Part II: Job Specifics

- Experimental optimization is essential to any successful business
- Kemin Health daily performs experiments and collects data to optimize the conditions of a particular process
- Many times experts in different areas collaborate together to achieve optimization
- The purpose of optimization is to decrease production costs and increase the amount of product produced
- The goal is an increase in net profit

Part III: Introduce the Problem

- Kemin Health is trying to optimize the conditions for the production of Ammonia.
- You are being considered for a position as part of our plant management team. The goal of the team will be to quickly optimize the process for producing ammonia
 - Students will be divided into teams of 5
- Every attempt to optimize will be recorded, each attempt "costs" the company time and money.*
 - <https://docs.google.com/a/gvcsmail.org/forms/d/1Xma0K5fi3kOWEM5zwGCAnexUGaFRBhO6VYA1yK3iaD0/edit>
- We need people who can quickly see trends, collaborate, and make quality decisions.

Part IV: Background

- Each Student will become an expert in their area and then return to the group and give their findings
 - https://docs.google.com/document/d/13qjk9_7Wbw5sww6Wqd4z-HpxD-tA_EmKpPa31jyzLcQ/edit#heading=h.gjdgxs
- Data for each expert
 - https://docs.google.com/spreadsheets/d/1tsqaQtah_BiT16Pq7aDZBUcxp4eKzZosuGFETdOCXSM/edit#gid=0
- Students may use online resources to research any additional information

Part V: Business Solution

- Kemin employees would collaborate and work

Part VI: Student Solutions

- Each expert will come back to the group and